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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO	
09.761,125	01-16-2001	Bernard G. Harter	31.14.000005	2908	
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DATE MAILED, 07/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/761,125	HARTER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thanh Lam	2834			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1 136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1 704(b). Status					
1) Responsive to communication(s) filed on <u>RE</u>	EC filed on 5/12/2003 .				
2a) This action is FINAL . 2b)⊠ T	his action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-22</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of In	ummary (PTO-413) Paper No(s) Iformal Patent Application (PTO-152)			

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Masahiko (JP-11332138).

Regarding claim 1, Masahiko (figs. 5a-5e) discloses a stator plate for a stator segment assembly of a stator of an electric machine comprising: an outer rim section (51a) of said stator plate for said stator segment assembly that includes a radially inner surface, a tooth section (51b) of said stator plate of said stator segment assembly extending radially inwardly from said outer rim section; and a first undereut portion (51c) of said stator plate for said stator segment assembly that is formed in said radially inner surface of said outer rim section and that receives winding wire (52a).

Regarding claim 2, Masahiko discloses said first undercut portion is located adjacent to a junction between said tooth section and said radially inner surface.

Regarding claim 3, Masahiko discloses said first undercut portion increases slot area and allows additional winding wire to be wound around said tooth section.

Regarding claim 4, Masahiko discloses said first undercut portion provides clearance for a start turn of winding wire on said stator segment.

Regarding claim 5. Masahiko discloses said first undereut portion is generally U-shaped.

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Regarding claim 6, Masahiko discloses said stator is formed by a plurality of stator plates.

Regarding claim 7, Masahiko discloses a stator segment assembly for a stator of an electric machine comprising; a circumferentially-segmented stator core including a stack of stator plates, each of said stator plates including an outer rim section (51a), a tooth section (51b) extending radially inwardly from said outer rim section, a radially inner surface of said outer rim section that is generally perpendicular to said tooth section, and a first undercut portion (51c) that is formed in said radially inner surface of said outer rim section adjacent to a junction between said radially inner surface and said tooth section and that receives winding wire (52a).

Regarding claim 8, Masahiko discloses a first end cap (see shaded sections of figs. 5b-5e) attached to a face surface of said stack and having a radially outer section, a middle section extending radially inwardly from a center portion of said radially outer section, and an inner section connected to said middle section, wherein a radially inner surface of said outer section is generally perpendicular to sides of said middle section, and wherein said radially inner surface of said radially outer section includes a third undercut portion (51d on right of fig 5b) that is adjacent to said center portion of said radially outer section.

Regarding claim 9, Masahiko discloses first and second end caps that are located adjacent opposite face surfaces of said stack, wherein said first and second end caps include third and fourth undercut portions (51d on left of fig. 5b) that register with said first undercut portion of said stack.

Regarding claim 10, Masahiko discloses windings that are wound around said first and second end caps and said stack.

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Regarding claim 11, Masahiko discloses an insulating material that is located between said windings and said stack.

Regarding claim 12, Masahiko discloses a tongue formed in one circumferential end of said outer rim section and a groove formed in an opposite circumferential end of said outer rim section.

Regarding claim 13, Masahiko discloses said tongue and said groove are V-shaped.

Regarding claim 14, Masahiko discloses said tongue and said groove are C-shaped.

Regarding claim 15, Masahiko discloses said electric machine is a brushless permanent magnet motor.

Regarding claim 16, Masahiko discloses said electric machine is a switched reluctance motor.

Regarding claim 17, Masahiko discloses a second undercut portion in said radially inner surface of said outer rim section.

Regarding claim 18, Masahiko discloses said first undercut portion provides sufficient clearance for a plurality of winding turns.

Regarding claim 19, Masahiko discloses stator segment assembly for circumferentiallysegmented stator of an electric machine comprising: a stack of stator plates for said circumferentially-segmented stator that are generally "T"-shaped and include an outer rim section, a tooth section that extends radially inwardly from a center portion of said outer rim section, a radially inner surface of said outer rim section that is generally perpendicular to said tooth section, and a first undercut portion (51c) in said radially inner surface of said outer rim

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section that is adjacent to said center portion and that is generally U-shaped, and that receives winding wire.

Regarding claim 19, Masahiko discloses an end cap that is generally "T"-shaped and includes an outer section, a middle section extending inwardly from a center portion of said outer section, and an inner section, wherein a radially inner surface of said outer section of said end cap is generally perpendicular to sides of said middle section, and wherein a second undercut portion is formed in said radially inner surface of said outer section and is adjacent to said center portion of said outer section.

Regarding claim 21, Masahiko discloses first and second insulating end caps that are attached to opposite face surfaces of said stack.

Regarding claim 22, Masahiko discloses windings that are wound around said first and second end caps and said stack, and an insulating material that is located between said windings and said stack.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3432 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0656.

PRIMARY EXAMINEE

June 26, 2003